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AAGGAGATGATGCTCTTCTGTGTAGAGATGTGACTGAGAACCCTGGCTGCACCTAACGTACAGGGACCTCC  
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CCTTAGTTTTCTTACAAGGATTACAAGGGATTACACAGGCAGAGGCAAGATAGCCAAGGACAAGAGTTT  
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TGCCTGAAGAACATCCACAGAATAGACTTGAACACAAAGATCCAGAAGTACACCCAGTCCAGCCAAGGAG  
CAAGATCAAATATGAATACTCTCCAGGCTTCGCTCCCAAAATTGAGTATCAAGTATAACTCAAGGCTCCA  
GAATGGGCGAAGTAAAGAGCCAAGATTTGTGGAATACCGTGACAGTCAAAGAACACTGGTGAAGACATCC  
ATCCAGGAATCAGGAGCTTTTTTACCTCCGCACATCCGTGAAGAGACTTACAGGATGCAGAGCAAGCCCC  
TAGGAATCTGCTTGATCATTGATTGTATTGGCAACGACACAAAATATCTTCAAGAGACCTTCACTTCCCT  
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AGTATGGCCCAACATCAAGACTATGACAGCTTTCATGTGTCTTGGTGAGCCTAGGAGGCTCCCAAAGCA  
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GTGCCCTTCTCTCAGAGGGAAGCCAAAGCTCTTTTTTATTGAGAACTATGAGTCGTTAGGTAGCCAGTTG  
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ACTGCACAACCTACCCAGAAGCTGATATCTTTTGGAGCCTGTGCACAGCAGACGTATCTCACTTGGAGAA  
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CGTTGGTGTCTTGGTATATCATCCAGGGTGGCGGCTTGGAGCAGAGCTTGGCGGTTACGGCTGCTTCTG  
GCTGCTTCTGGCTCTGCCGTGAGTCTTGGCTAGGGTCTCCTGTGCACAGGCATGAGCCGTAACCTGT  
GCCTGGGAAACGTCTCACTCCCGCCGCCGTGCTTTACCTCTCTAAACTTCCCTACTTACATTCTTAGT  
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GCACACGGAAATACTGAGGGACACACAAGCTTTTATGGAGATGTTTGTGTTGTTGTTGTTGTTGTTT  
TGTTTCTTTGGCAGGAACAGATTGCAAGGGCAGAGAGTAGATAAGGAAGCTGGAGACATGAGTGGGGTTG  
GGTGCATGATATAGAATTACAAAGAAAAA (SEQ ID NO:1)

MAQSPVSAEVIHQVEECLDEDEKEMMLFLCRDVTENLAAPNVRDLDLSLSEGRQLSFATLAELLYRVRFDLLKRIKTDKATVED  
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NTKIQKYTQSSQARSNMNTLQASLPKLSIKYNSRLQNGRSKEPRFVEYRDSQRTLVKTSIQESGAFPPHIREETYRMQSKPLGI  
CLIIDCIGNDTKYLQETFTSLGYHIQLFLFKSHDITQIVRRYASMAHQDYDSFACVLVSLGGSQSMGRDQVHSGFSLDHVKNM  
FTGDTCPSLRGPKLFFIQNYESLGSQLEDSSLEVDPGSIKNVDSKPLQPRHCTHPEADIFWSLCTADVSHLEKPPSSSSSVYLQK  
LSQQLKQRRRPLVDLHVELMDKVYAWNVSSEKESLSLQHTLRKKLILAPT  
(SEQ ID NO:2)

FIGURE 1

[ ] = sequence flanking Neo insert in targeting construct

**FIGURE 2A**

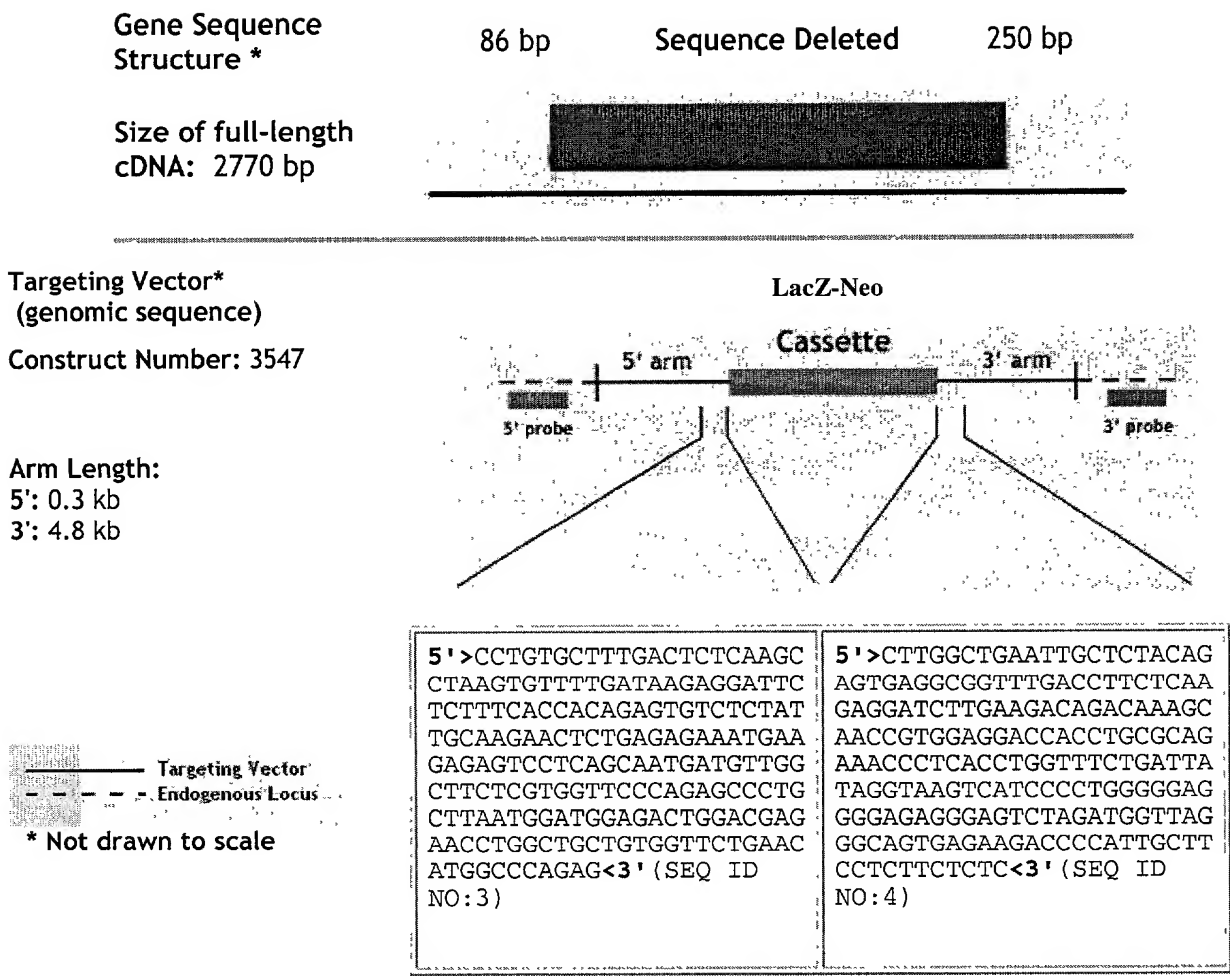


FIGURE 2B

4/5

## Hot Plate

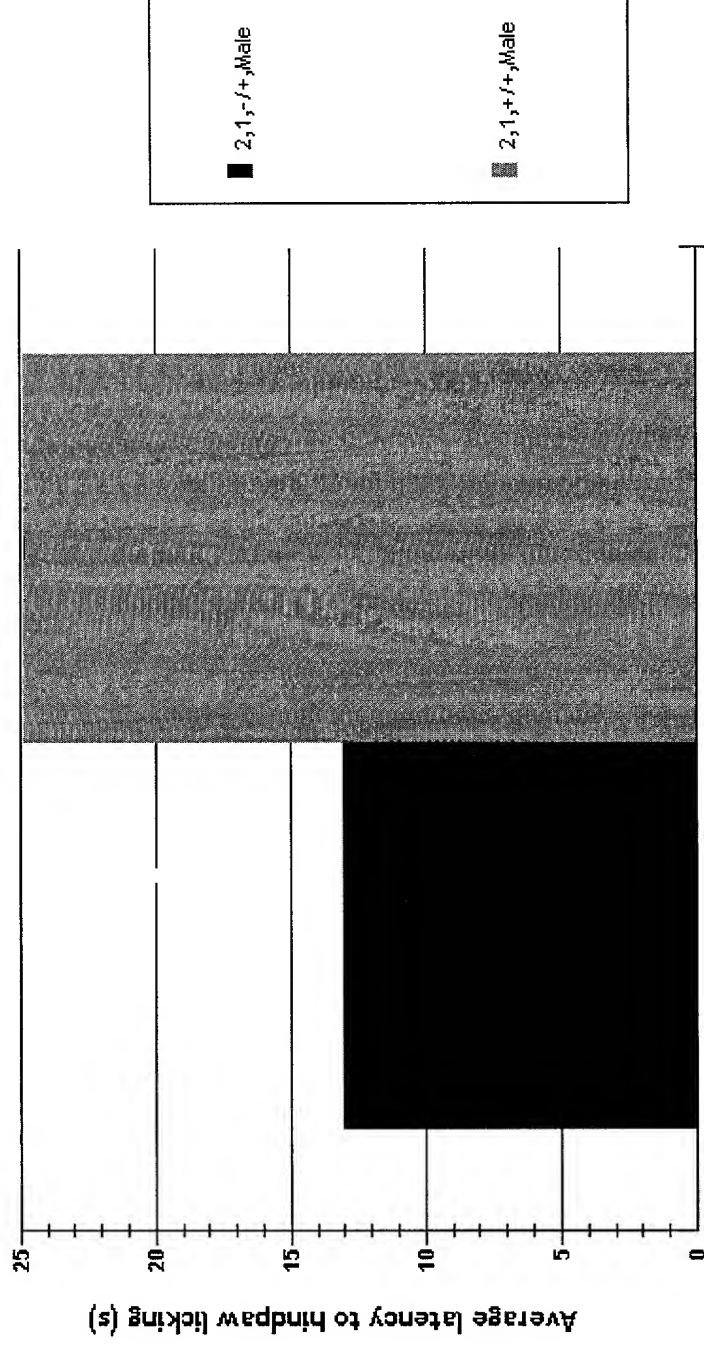


FIGURE 3

5/5

# Metrazol

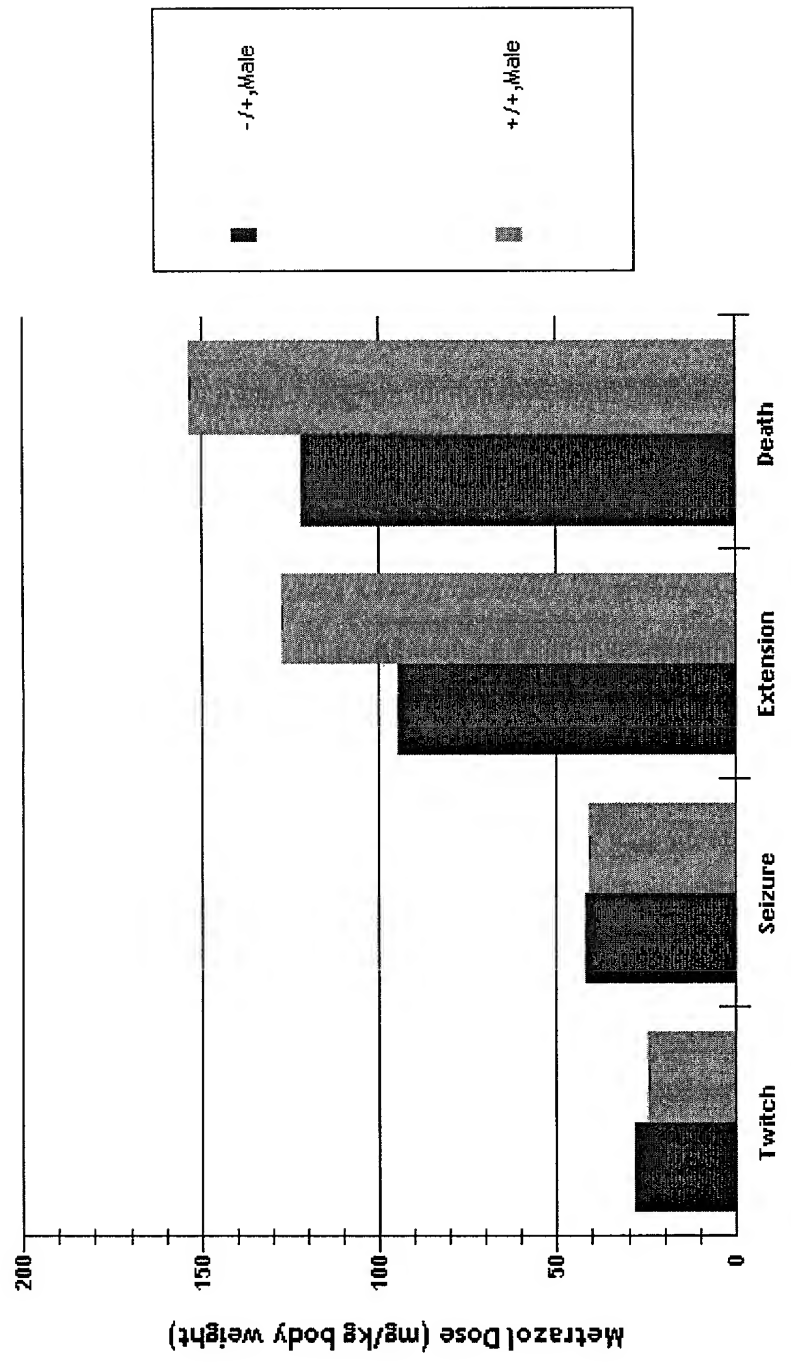


FIGURE 4